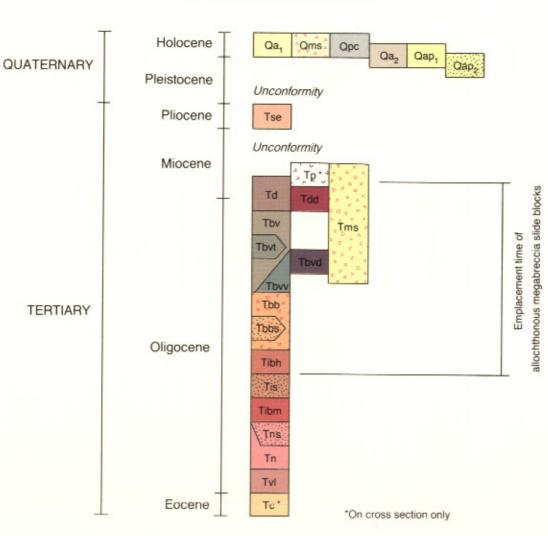


CORRELATION OF MAP UNITS



SYSTEM	SERIES	STRATIGRAPHIC UNIT	SYMBOL	Thickness in Feet (Meters)	LITHOLOGY
QUATERNARY	Holocene	Surficial deposits	Qa ₁ /Qms/Qpc/ Qa ₂ /Qap ₁ /Qap ₃	0-100 (0-30)	- TOTAL OF THE PARTY OF THE PAR
		Sevier River Fm.	Tse	0-10+ (0-3+	
	Pleistocene	★ Mt. Dutton Formation • Feeder dikes	Td Tdd	1000+ (300+)	00254824320000000000000000000000000000000000
	Pliocene	72.75.300			
TERTIARY	Miocene	Bear Valley Formation	Tbv	500-1000 (150-300)	
	Ē	 Welded tuff unit 	Tbvt	0-30 (0-10)	
		• Feeder dikes	Tbvd		
		Volcanic vent	Tbvv		TDvv
		Buckskin Breccia	Tbb	0-750 (0-230)	20000000000000000000000000000000000000
TE		Local sandstone unit	Tbbs	0-100 (0-30)	100 100 100 100 100 100 100 100 100 100
		Isom Formation Baldhills Tuff Mbr. Sandstone member Blue Meadows Tuff Mbr.	Tibh Tis Tibm	30-250 (9-75)	Tibin Tibin
		Wah Wah Springs Fm. Local sandstone mbr.	Tn/Tns	30-100 (10-30)	经验证证证的
		Local volcanic and sedimentary strata	TvI	0-250 (0-75)	
	Eocene	Claron Formation (Cross-section)	Тс		

^{*}Emplacement time of plutonic rock (Tp on cross-section)

DESCRIPTION OF MAP UNITS

Qa ₁	and gravel along active streams and washes.				
Oms	Landslide debris—Disaggregated				

Qpc

Qa,

Qap,

Qap,

Tms

Td

Tdd

Playa lake deposits—Lacustrine clay,

Alluvium-Unconsolidated silt, sand,

silt, and sand in undrained depression. Older alluvium-Dissected deposits of unconsolidated silt, sand, and

gravel along active streams and washes. Piedmont-slope deposits-Unconsolidated, poorly sorted silt, sand, and

gravel occurring on broad, sloping surfaces (piedmont slopes) formed by deposition (as alluvial fans) and by erosion (as pediments). Older piedmont-slope deposits-Poorly indurated, poorly sorted

silt, sand, and gravel mantling erosional remnants of pediments that formed graded to the Sevier River as much as 300 feet (90 m) above present drainage levels. Sevier River Formation-Light-gray,

Tse light-brown, and pinkish, poorly to moderately consolidated silt, pebbly sandstone, and conglomerate deposited in the valleys of the Sevier River and its tributaries.

Gravity slide megabreccia-Large blocks of heterogeneous rock in a chaotic assemblage formed by gravity slides.

Mount Dutton Formation-Gray and brown, volcanic mudflow-breccia of intermediate composition and subordinate conglomerate, tuffaceous sandstone, and lava of intermedi-

> ate and mafic composition. Feeder dikes of Mount Dutton Formation-Medium-gray, hornblendebearing andesite.

Bear Valley Formation-Pale- to dark-Tbv gray, yellowish, and greenish-gray, weak, crossbedded, zeolitecemented, tuffaceous sandstone and subordinate felsic tuff and basaltic(?) lava and volcanic mudflow-breccia.

Welded tuff unit of Bear Valley For-Tbvt mation-Brick-red to maroon, densely welded, vitric ash-flow tuff.

Feeder dikes of Bear Valley Formation-Dark-gray to black, vesicular basalt(?). Volcanic vent of Bear Valley Forma-

Tbvv tion-Dark-gray basaltic(?) lava and mudflow-breccia. Buckskin Breccia-Light-colored,

Tbb well-bedded, moderately resistant, lithic ash-flow tuff. Local sandstone unit of Buckskin

Tbbs Breccia-Light- to medium-gray and yellowish, weak, zeolitecemented, cross-bedded, tuffaceous sandstone.

Baldhills Tuff Member of Isom Formation-Pale- to grayish-red Tibh and reddish-purplish-gray, ledgeforming, densely welded, vitriccrystal ash-flow tuff.

Sandstone member of Isom Formation-Light- to medium-gray and yellowish, weak, cross-bedded. zeolite-cemented, tuffaceous sandstone. Blue Meadows Tuff Member of Isom

Formation-Pale- to grayish-red Tibm and reddish-gray, ledge-forming, densely welded vitric and vitriccrystal ash-flow tuff. Needles Range Group-Only the Wah

Tn Wah Springs Formation appears in outcrop. Reddish-brown to salmon-pink, ledge-forming, moderately welded vitric-crystal ashflow tuff. Sandstone member of Wah Wah Springs Formation-Light- to me-Tns

mented tuffaceous sandstone and subordinate conglomerate. Local volcanic and sedimentary TvI strata-Local accumulations of lava, tuff, volcanic mudflowbreccia, and tuffaceous sedimen-

dium gray, weak, zeolite-ce-

Claron Formation-Reddish-brown Tc and grayish-white, well-bedded, calcareous shale and siltstone, argillaceous freshwater limestone, sandstone, and conglomerate.

tary strata.

MAP SYMBOLS

Contact Dashed on cross section where

approximately located

^^^^^ Gravity-slide block contact

Sawteeth on slide block

• ______

ball and bar on downthrown side

Fault Mostly high-angle, dip-slip faults. Dashed where inferred or approximately located; dotted where concealed;

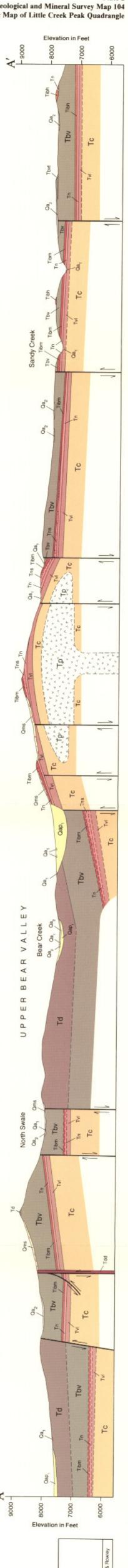
Breakaway scarp reeth point downslope

Lineament Identifiable on aerial photographs or in

the field. Probably trace of fault or joint

Structural dome

Strike and dip of beds



livari & Anderson

Areas of

mapping responsibility